

REMARKS

Claims 1-42 are all the claims pending in the application.

PRIOR ART REJECTIONS

The Examiner has rejected claims 1-42 under 35 U.S.C. § 103(a) as being unpatentable over Larijani et al. (U.S. Patent No. 6,603,746) in view of Itoh (U.S. Patent No. 6,481,321).

Applicant traverses the rejections because the cited references fail to disclose or suggest all of the claim limitations. Specifically, with respect to the independent claims, at least the following limitations are not disclosed or suggested:

1. a communication monitor circuit for *detecting quality deterioration of radio communication with mobile stations*
6. a communication state monitor circuit coupled to said receivers for *detecting quality deterioration of a communication state of radio communication between said base station and said mobile stations*
14. a communication state monitor circuit coupled to said receivers for *detecting quality deterioration of a communication state of radio communication between said base station and said mobile stations*
22. monitoring, at said base station, *a communication state of radio communication between said base station and said mobile stations*
27. detecting, at said base station, *quality deterioration of a communication state of radio communication between said base station and said mobile stations*
35. a receiver which demodulates transmission signals transmitted from *plural mobile stations*;

a communication state monitor, coupled to said receiver, *which detects a deterioration of a communication state of radio communication between said base station and the plural mobile stations;*

37. a receiver which receives, from the base station, a transmission power control signal directing to decrease a power of the signal to be transmitted to the base station in the case where *a deterioration of a communication sate of radio communication between the base station and the plural mobile stations is detected at the base station;*

39. a communication state monitor, coupled to said receiver, which *detects a deterioration of a communication state of radio communication between said base station and said plural mobile stations;*

40. detecting, at the base station, *a deterioration of a communication state of radio communication between said base station and the plural mobile stations*

41. receiving, from the base station, a transmission power control signal directing to decrease a power of the signal to be transmitted to the base station in the case *where a deterioration of a communication sate of radio communication between the base station and the plural mobile stations is detected at the base station*

42. detecting, at the base station, *a deterioration of a communication state of radio communication between said base station and the plural mobile stations*

Larijani et al. is directed to a communication system wherein the transmit power of *a wireless link* is adjusted so that link performance meets a target level, the method including dynamically adjusting the target level as a function of the traffic characteristics of *the link*. Col. 2, lines 60-65. (emphasis added). On the other hand, the claimed invention requires that the base station monitor the communication state of a *plurality* of mobile stations. Thus, the claimed “communication state of said radio communication” refers to the quality of a group of individual communications between the mobile stations and the base station. The base station in Larijani et al. includes separate maximum selectors, integrators, statistical power control blocks for each mobile unit. Col. 7, lines 29-42. Larijani et al. does state that a centralized control processor may be used; however, all of the analyses and adjustments are made based on the communication state of each individual mobile unit. There is no disclosure or suggestion of monitoring the quality of a plurality of individual communications between a plurality of mobiles units and the base station and making a judgment based on the state of communication of all a plurality of communications.

Regarding Itoh, that reference fails to make up for the deficiencies of Larijani.

Regarding the dependent claims, they should be allowable at least based on their dependence from the independent claims above for at least the same reasons. In addition, regarding claims 2, 5, 10, 13, 18, 21, 23, 26, 31 and 34, each of these claims require that the total interference electric power be monitored. Neither Larijani et al. nor Itoh discloses or suggests monitoring or measuring the total interference electric power of a plurality of communications between a plurality of mobile stations and a base station and making a judgment based on the total interference electric power.

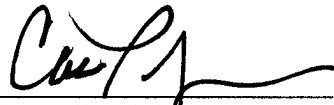
Likewise, regarding claims 3, 11, 19, 24 and 32, each of these claims require that signal to noise ratios be monitored and the number of signal to noise ratios. Neither Larijani et al. nor Itoh discloses or suggests monitoring or measuring signal to noise ratios of a plurality of communications between a plurality of mobile stations and a base station and the number of signal to noise ratios.

Likewise, regarding claims 4, 12, 20, 25 and 33, each of these claims require that the TPC bit signals be monitored and the number of TPC bit signals. Neither Larijani et al. nor Itoh discloses or suggests monitoring or measuring the TPC bit signals of a plurality of communications between a plurality of mobile stations and a base station and the number of TPC bit signals.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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